(19) World Intellectual Property Organization International Bureau



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(43) International Publication Date 6 May 2005 (06.05.2005)

PCT

(10) International Publication Number WO 2005/040190 A1

(51) International Patent Classification?: A61K 35/22, A61P 5/24, A01K 23/00

C07J 75/00,

(21) International Application Number:

PCT/AU2004/001454

(22) International Filing Date: 25 October 2004 (25.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2003905834

24 October 2003 (24.10.2003) AU

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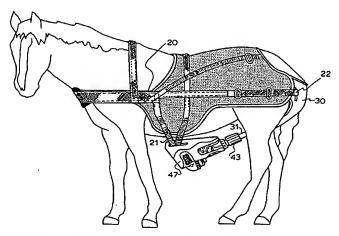
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ESTROGEN EXTRACTION FROM PREGNANT ANIMAL URINE



(57) Abstract: A method of extracting oestrogens, conjugated estrogens, equine gonadotropin and equine follicle stimulant from pregnant mares urine which includes the steps of contacting the urine with dispersed particles of adsorber materials of a particle size above 200 microns and subsequently removing the species by washing the adsorber materials in a buffered aqueous solution of pH between 7.5 and 9.5. The compounds are extracted in situ on the mare using an apparatus which consists of a urine holding vessel suspended beneath the belly of the mare and a urine collection device attached to the perineum of the mare and communicating with the holding vessel in which the urine collection device and/or the holding vessel incorporates a removable urine permeable container of an adsorbent material for said chemical species. Alternatively the holding container can contain a water immiscible solvent such as hexanol for the in situ extraction of estrogens. An initial filter is incorporated into the urine collection device upstream of the adsorber container. The filter removes mucous and other viscous component of the urine. The system is also applicable to cattle.

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